

UTAH ATE SKILL CERTIFICATE PROGRAM

FURNITURE DESIGN & MANUFACTURING

STUDENT PERFORMANCE EVALUATION

TEST #522

Student Name: _____

The performance evaluation is a required component of the Skill Certification process. Each student **must be evaluated** on the required performance standards. Performance standards may be completed and **evaluated anytime during the course**.

- Students should be aware of their progress throughout the course, so that they can concentrate on the objectives that need improvement.
 - Students should be encouraged to repeat the objectives until they have performed at a minimum of a number 1 or 2 on the rating scale (moderately to highly competent level).
1= highly competent Successfully demonstrated without supervision
2= moderately competent Successfully demonstrated with limited supervision
3= limited competence Demonstrated with close supervision
4= not competent Demonstration requires direct instruction and supervision
 - When a standard has been achieved at a minimum of 80% (moderately to highly competent level). "Y" (Y=YES) is recorded on the last line of that standard, on the performance evaluation sheet. If a student does not achieve a 1 or a 2 (moderately to highly competent level), then "N" (N=NO) is recorded on the last line of that standard.
 - All performance standards **MUST** be completed and evaluated prior to the written test.
 - The **teacher** will bubble in "A" on the answer sheet for item #81 for students who have achieved "Y" on **ALL** performance standards.
 - The **teacher** will bubble in "B" on the answer sheet for item #81 for students who have **ONE or more "N"s"** on the performance standards.
 - The signed performance evaluation sheet(s) **MUST** be kept in the teachers' file for two years.
 - A copy is also kept on file with the school's ATE Skill Certification testing coordinator for two years.
- Students who achieve a 1 or a 2 (moderately to highly competent) on **ALL** performance standards and 80% on the written test will be issued an ATE Skill Certificate.

480702-02 Students will be able to understand the design, planning, and estimation process.				
	1	2	3	4
Draw the necessary views of a selected project to scale.				
Create a material list for the selected project and determine the project cost.				
Create a procedure list for construction of a cabinet.				
Extract pertinent cabinet information and specifications from blueprints and specifications.				

480702-03 Students will be able to understand and demonstrate safe practices.				
	1	2	3	4
Demonstrate the ability to work safely in a cabinet shop following general safety rules.				
Demonstrate safe use of woodworking tools and machines.				
Demonstrate how to handle and store materials according to the Material Safety Data Sheets (MSDS).				
Pass a written safety test with a score of 100 percent.				

480702-04 Students will be able to understand and demonstrate the safe use of hand tools.				
	1	2	3	4
Demonstrate proper use of striking tools.				
Demonstrate proper use of measuring and layout tools.				
Demonstrate proper use of sawing tools.				
Demonstrate proper use of edge-cutting tools.				
Demonstrate proper use of fastening tools.				

480702-05 Students will be able to understand and demonstrate the safe use of portable power tools.				
	1	2	3	4
Demonstrate proper use of routers.				
Demonstrate proper use of reciprocal or circular saws.				
Demonstrate proper use of biscuit jointer.				
Demonstrate proper use of power plane.				
Demonstrate proper use of power drills and drivers.				
Demonstrate proper use of pneumatic finishing tools.				

480702-06 Students will be able to understand and demonstrate the safe use of power machines.				
	1	2	3	4
Demonstrate the proper use of cutting machines. Table saw – change blade, setup dado blade, cut a cove, cut a bevel, rip, cross cut, and miter.				
Band saw – Cut arcs and circles.				
Scroll saw – cut arcs, circles, change blade, and set tension.				
Panel saw –cut horizontal and vertical.				
Radial arm saw –				
Demonstrate the proper use of the jointer in facing, and edging				
Demonstrate the proper use of the surfacer in surfacing.				
Demonstrate the proper use of shaping machines in straight cut and collar use.				
Demonstrate the proper use of boring machines.				
Drill press – setup, adjust, and bore.				
Demonstrate the proper use of the following sanding machines.				
Spindle sander – change abrasive paper.				
Disc sander – change abrasive paper.				
Belt/Drum sander – setup, adjust, and change belt.				

480702-07 Students will be able to understand the wood components and characteristics.				
1	2	3	4	
	Identify wood species and list the species most suited for cabinet construction – Alder, Pine, Cherry, Poplar, Mahogany, Oak, Walnut, Maple, Red Cedar			
	Identify the different grades of lumber – FAS, Select, #1 Common.			
	Identify the different cuts of wood – ¼ Sawed, Plane Sawed, Planed Sliced, Rotor Sliced.			
	Identify the natural defects in lumber – Crook, Bow, Cup, Twist.			
	Identify man-made materials – Plastic Laminate, Particle Board, Plywood, Hard Board, MDF.			

480702-08 Students will be able to understand the basic math and measuring concepts				
1	2	3	4	
	Calculate board feet and square feet.			
	Read and measure with a tape using sixteenth (1/16).			

480702-09 Students will be able to understand and demonstrate the use of fasteners/adhesives/abrasives.				
1	2	3	4	
	Demonstrate the various fasteners and the application for each in cabinetmaking – staples, nails, screws.			
	Demonstrate the correct use of each specified grit size – 80, 100, 120, 220			
	Demonstrate the application of various adhesives – epoxy, wood glue, contact cement.			

480702-11 Students will be able to understand and demonstrate the use of joinery.				
1	2	3	4	
	Construct and use the basic joints used in cabinetmaking/millwork Mortise and tenon, dowel, or pocket Dado, rabbet, or miter.			

480702-12 Students will be able to understand cabinet components/hardware.				
1	2	3	4	
	Layout and construct a face frame cabinet box or frameless European cabinet.			
	Layout, construct, and install a door.			
	Layout, construct, and install a drawer.			
	Properly install common cabinet/furniture hardware - hinges, drawer guides, pulls and knobs.			
	Be able to install adjustable shelving.			

480702-14 Students will be able to understand and demonstrate finishing techniques.				
1	2	3	4	
	Properly prepare surface for finishing.			
	Properly apply stain.			
	Properly apply a clear finish.			

480702-20 Students will be able to understand the importance of employability and work habits.				
1	2	3	4	
	Integrity (honesty, dependability).			
	Punctuality and attendance.			
	Staying on task (using time effectively).			
	Productive team worker (works well with others).			
	Leadership.			

The instructor must retain a copy of this Student Performance Evaluation for two years after the student has left the program.

Instructor Signature: _____ Date: _____

Student Signature: _____ Date : _____

School: _____